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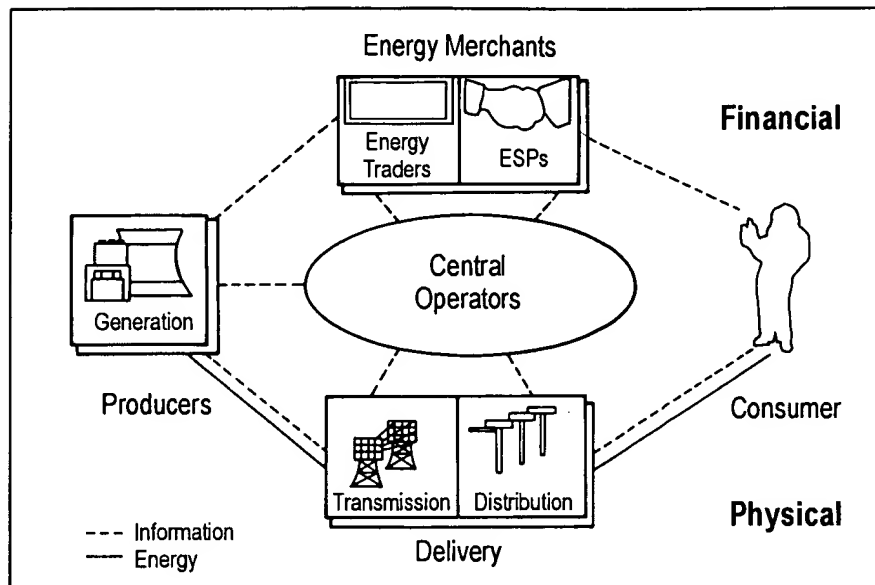


Fig. 1

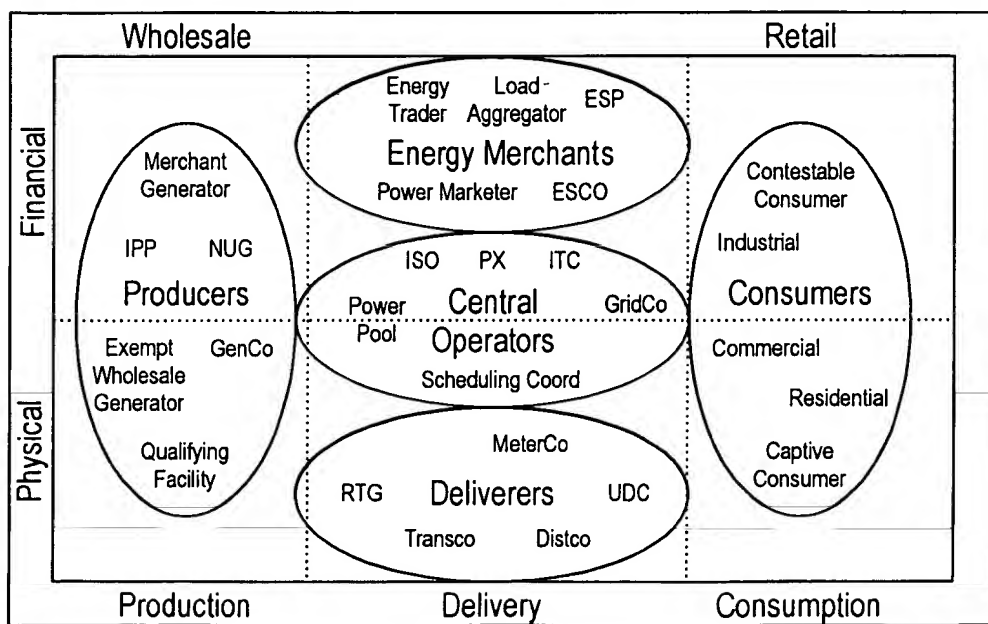


Fig. 2

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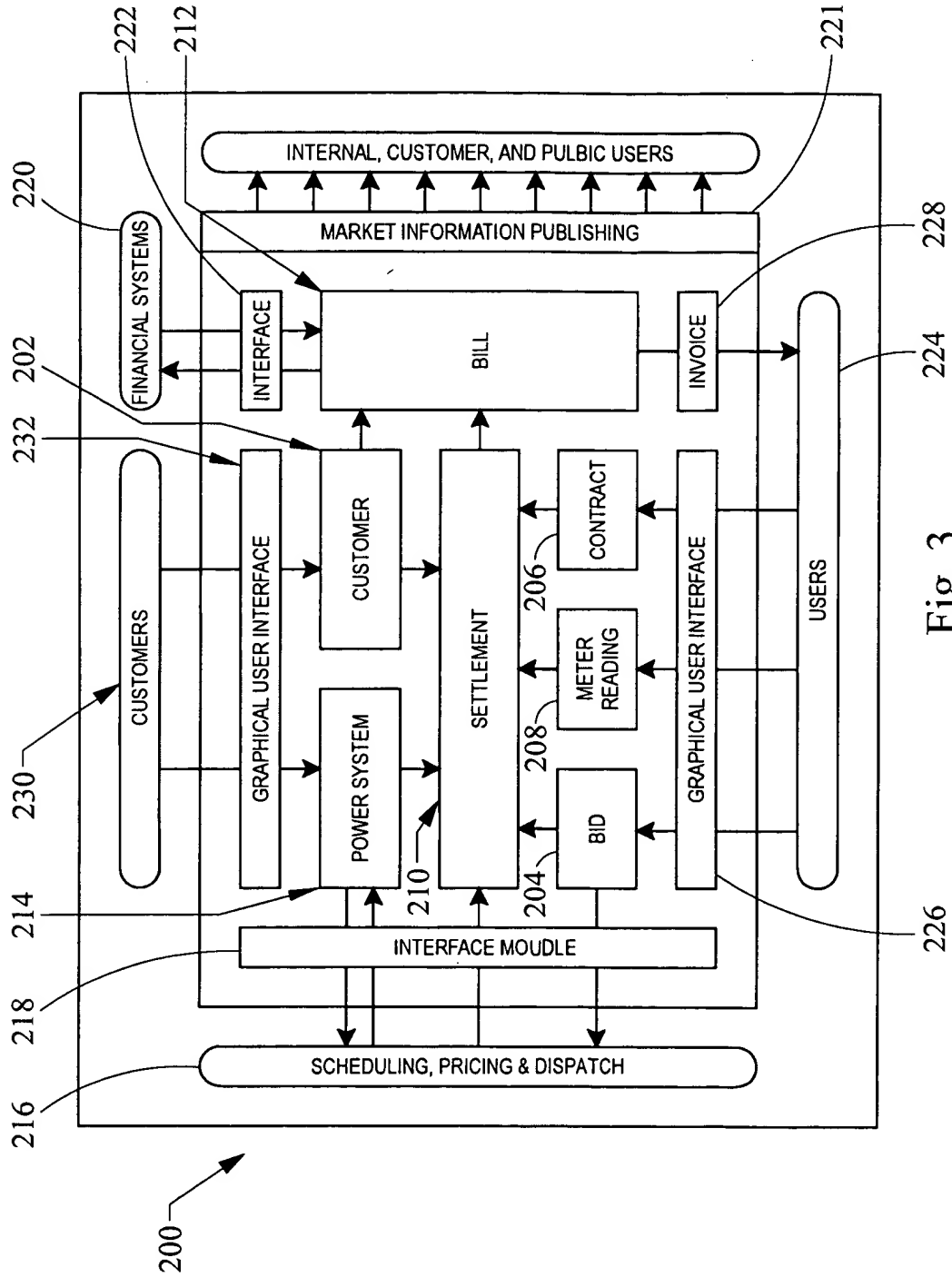


Fig. 3

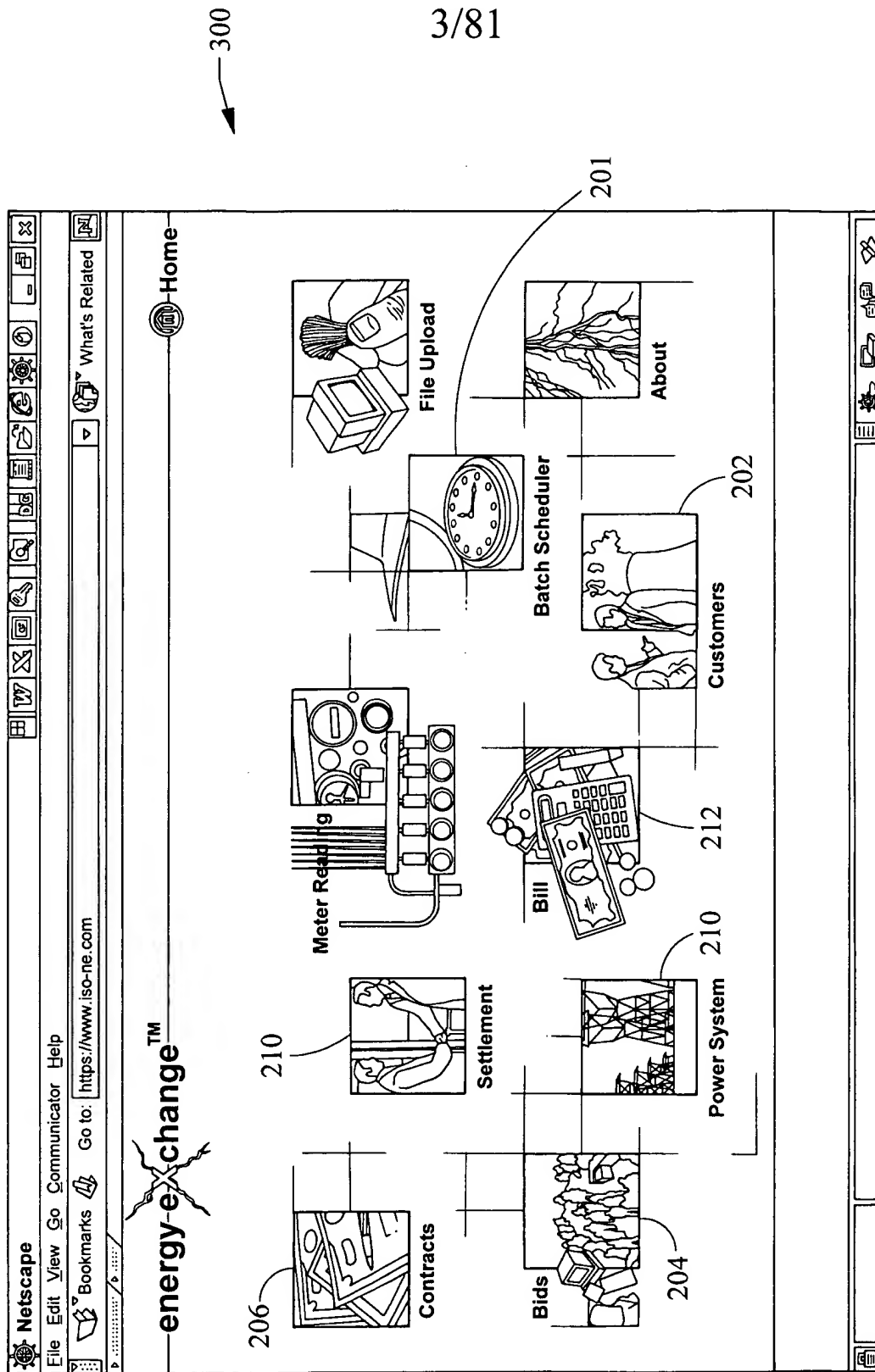


Fig. 4 - Home page as seen in Netscape browser

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energy-eXchange™

Bid Information | Energy | AGC | Reserve | Capability | Resource Characteristics | Maintenance

Current Date: Nov 10, 1998

Bid Submission Deadlines

		Date Range
Energy Market	12:00	Nov 12, 1998 - Nov 21, 1998
AGC Market	12:00	Nov 12, 1998 - Nov 21, 1998
Reserve market	12:00	Nov 12, 1998 - Nov 21, 1998
Operable Capability Market	12:00	Nov 12, 1998 - Nov 21, 1998
Installed Capability Market	12:00	Dec 1, 1998 - Sep 1, 1999
Resource Characteristics	12:00	Nov 12, 1998 - Nov 21, 1998

Participant: Cadillac Gen Co.

1. Enter Customer Search Criteria

☒ Customer ID
☐ Customer Name

2. Find **3. Select Customer**

Identifier	Name
903	Cadillac Gen Co.
904	Mustang Retail Co.
905	Rolis Royce Utility

OK

Contracts Batch Scheduler | **File Upload Settlement** | **Meter Readings Power System** | **Bids Customers** | **Bill About**

Fig. 5

501

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Netscape
File Edit View Go Communicator Help
Go to: https://www.iso-ne.com
energy-exchangeTM
Home
Bids
Energy AGC Reserve Capability Resource Characteristics Maintenance
Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About
1. Select Bidding Action
Create new bid from scratch
2. Select Type of Bid
Normal
3. Select Dispatch Date
Nov 12, 1998
4. Choose Unit or Load
☒ Unit ☐ Dispatchable Load
AVALANCHE GAS
Next
Submit Clear All Reset

Fig. 6

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Fig. 7

Netscape
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 Bookmarks Go to: <https://www.iso-ne.com>

energy-exchange™ Home Bids

Bid Information Energy AGC Reserve Capability Resource Characteristics Maintenance

Enter Normal bid for Cadillac Gen Co., AVALANCHE GAS Unit for Nov. 12, 1998

701 702 703

Hr End	SS	LOL	HOL	100	434	Total
0100	0	60	534	15.0	25.0	534
0200	0	60	534	15.0	25.0	
0300	0	60	534	15.0	25.0	
0400	0	60	534	15.0	25.0	
0500	0	60	534	15.0	25.0	
0600	0	60	534	15.0	25.0	
0700	0	60	534	15.0	25.0	
0800	0	60	534	15.0	25.0	
0900	0	60	534	15.0	25.0	
1000	0	60	534	15.0	25.0	

Claimed Low Limit (MW) 60.0 Seasonal Claimed Capability (MW) 534.0

4. Enter Data
 Bid Helper
 Block Selection
 Bid Block
 Begin (hour ending) 0100
 End (hour ending) 2400
 Grid Column 2
 Amount (MW)
 Price (\$)
 Fill
 Submit Clear All Reset

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

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Fig. 8

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Home **Bids** **Bills**

Energy Bid Submission Confirmation

Asset Identifier: 101
 Asset Type: Generating Unit
 Date: Nov 12, 1998
 Submitted on: Tue Nov 10 17:39:41 EST 1998
 Validation Status: Success
 Validation Message: Validation successful
 Process Status: Success
 Process Message: Processing Successful

Save **OK**

Signed by: ISO New England
 Validated Low Limit (MW) 00.0
 Validated Validated Capacity (MW) 534.0

Submit **Clear All** **Reset**

Contracts Batch Scheduler **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Bookmarks Go to: https://www.iso-ne.com

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Home
Bids

Bid Information Energy AGC Reserve Capability Resource Characteristics Maintenance

Start Helper Edit

1. Select Bidding Action
Create new bid from scratch

2. Select Dispatch Date
Nov 12, 1998

3. Choose Unit
AVALANCHE GAS

Next

Submit Clear All Reset

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

Fig. 9

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Fig. 10

energy-exchange™

Home Bids

Bid Information Energy AGC Reserve Capability Resource Characteristics Maintenance

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

4. Enter Data

Bid Helper

Begin (hour ending) 0100

End (hour ending) 2400

Price (\$) |

Fill

Submit Clear All Reset

Enter AGC bid for Cadillac Gen Co., AVALANCHE GAS Unit for Nov 12, 1998

Hr End	AGC (\$/hr)
0100	22.0
0200	22.0
0300	22.0
0400	22.0
0500	22.0
0600	22.0
0700	22.0
0800	22.0
0900	22.0
1000	22.0
1100	22.0
1200	22.0

Edit Bid Edit AGC Characteristics 1001

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Fig. 11

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Bids

Bid Information Energy AGC Reserve Capability Resource Characteristics Maintenance

Start Helper Edit

4. Enter Data

Bid Helper

Begin (hour ending) 0100
End (hour ending) 2400
Range # 1
Low (MW)
High (MW)

Fill

Submit Clear All Reset

Enter AGC Characteristics for Cadillac Gen Co., AVALANCHE GAS Unit for Nov 12, 1998

	Range 1 Limits		Range 2 Limits		Range 3 Limits		Range 4 Limits		Automatic Response Rate
	Low	High	Low	High	Low	High	Low	High	
0100	60	534							25.0
0200	60	534							
0300	60	534							
0400	60	534							
0500	60	534							
0600	60	534							
0700	60	534							
0800	60	534							
0900	60	534							
1000	60	534							
1100	60	534							
1200	60	534							

Edit Bid Edit AGC Characteristics

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

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Fig. 12

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energy-exchangeTM
Home
Bids
Bid Information Energy AGC Reserve Capability Resource Characteristics Maintenance
Start Helper Edit
1. Select Bidding Action
Create new bid from scratch
2. Select Type of Reserve Bid
10 Min Spinning (TMSR)
3. Select Dispatch Date
Nov 12, 1998
4. Choose Unit or Load
☒ Unit ☐ Dispatchable Load
AVALANCHE GAS
Next
Submit Clear All Reset
Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

12/81

Fig. 13

energy-exchangeTM

Bids

Reserve

Enter 10 Min Spinning (TMSR) Reserve bid for Cadillac Gen Co., AVALANCHE GAS Unit for Nov 12, 1998

Hr End	TMSR (\$/MW)
0100	15.55
0200	15.55
0300	15.55
0400	15.55
0500	15.55
0600	15.55
0700	15.55
0800	15.55
0900	15.55
1000	15.55
1100	15.55
1200	15.55

5. Enter Data

Bid Helper

Begin (hour ending)

End (hour ending)

Price (\$)

Contracts Batch Scheduler **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 14

Netscape
File Edit View Go Communicator Help
Bookmarks Go to: https://www.iso-ne.com

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Bids

Bid Information Energy AGC Reserve Capability Resource Characteristics Maintenance

Start Helper Edit

1. Select Bidding Action
Create new bid from scratch

2. Select Market
☒ Operable Capability
☐ Installed Capability

3. Select Dispatch Date
Nov 12, 1998

Submit Clear All Next Reset

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

Netscape

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Bid Information Energy AGC Reserve Capability Resource Characteristics Maintenance

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Home

Bids

Enter bid for Cadillac Gen Co., Operable Capability for Nov 12, 1998

Hr End	330.0	200.0	MW																	
0100	45.0	60.0																		
0200	45.0	60.0																		
0300	45.0	60.0																		
0400	45.0	60.0																		
0500	45.0	60.0																		
0600	45.0	60.0																		
0700	45.0	60.0																		
0800	45.0	60.0																		
0900	45.0	60.0																		
1000	45.0	60.0																		
1100	45.0	60.0																		
1200	45.0	60.0																		

4. Enter Data Bid Helper

Begin (hour ending) 0100 ▾

End (hour ending) 2400 ▾

Grid Column 2 ▾

Amount (MW)

Price (\$)

Fill

Submit Clear All Reset

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

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Fig. 16

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Home
Bids
Resource Characteristics
Maintenance
Bid Information Energy AGC Reserve Capability
Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

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Start Edit

1. Select Submission Action
Edit an existing

2. Select Dispatch Date
Nov 12, 1998

3. Select Unit or Load
☒ Unit ☐ Dispatchable Load
AVALANCHE GAS

Next

Submit Clear All Reset

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Fig. 17

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Bookmarks

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Bids

Home

Bid Information **Energy** **AGC** **Reserve** **Capability** **Resource Characteristics** **Maintenance**

Start **Edit**

1. Select Submission Action
Edit an existing

2. Select Dispatch Date
Nov 12, 1998

3. Select Unit or Load
☒ Unit ☐ Dispatchable Load
AVALANCHE GAS

Next

Submit **Clear All** **Reset**

Enter characteristics for Cadillac Gen Co., AVALANCHE GAS Unit for Nov 12, 1998

Unit Characteristics

Minimum Run Time (hr)	22
Minimum Shutdown Time (hr)	24
Startup Time From Cold Conditions (hr)	5
Shutdown Time Cold Condition Applies (hr)	25
Startup Time From Hot Conditions (hr)	5
Manual Response Rate (MW/min)	3.4
Hours Of Startup	0
Startup Profile	

Reserve Capability When Off-Line

MW Available in 10 Minutes	10.0
MW Available in 30 Minutes	15.0

Contracts Batch Scheduler **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 18

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Bids

Bid Information Energy AGC Reserve Capability Resource Characteristics Maintenance

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

Bid Parameters

Select Action

☒ Edit Existing Parameters

☐ Create New Parameters

Effective From: Nov 11, 1998

Next

Submit Clear All Reset

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Fig. 19

Netscape
File Edit View Go Communicator Help
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Bids

Bid Parameters Bid Information Energy AGC Reserve Capability Resource Characteristics Maintenance

Select Action
☒ Edit Existing Parameters
☐ Create New Parameters

Effective From: Nov 11, 1998

Next **Submit** **Clear All** **Reset**

Effective From : Nov 10, 1998 **To :** Nov 17, 1998

Bid Submission Deadline

Energy Market	12:00
Reserve Market	12:00
AGC Market	12:00
Installed Capability Market	12:00
Operable Capability Market	12:00
Resource Characteristics	00:00

Other Parameters

Number of Advance Bids that can be submitted	10
Number of Prior Bids that can be retrieved	10
Maximum High Operating Limit Percentage over Seasonal Claimed Capability	25.0

Make Modification Effective From: Nov 11, 1998

Contracts Batch Scheduler **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 20

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Contracts

General Info **Details** **Schedule Info** **Pre-Determined Cond** **ICAP Adj**

1. Select Contract Type
New Search Result Helper
☒ Internal ☐ External
☒ Unit ☐ Load ☐ System ☐ Obligation

2. Select Market Product(s)
☒ Energy ☐ TMSR ☐ TMSF ☐ TMOR
☐ AGC ☐ OPCAP ☐ ICAP

3. Specify Contract Duration(Hour Ending)
Begins 12/15/1998 01:00
Ends 12/15/1998 24:00
☐ Life of the Unit/Load **Next**

Clear All **Submit**

Contracts Batch Scheduler **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 21

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Contracts

Contract ID

Parties
Seller
Buyer
☐ With Pre-Determined Condition (for ext. purchase)

Reference ID
Non-Standard ID
ICAP Contract ID

Hydro-Quebec
☐ Not Applicable to Hydro Quebec

General Info Details Schedule Info Pre-Determined Cond ICAP Adj

1. Select Contract Type
☒ Internal ☐ External
☒ Unit ☐ Load ☐ System ☐ Obligation

2. Select Market Product(s)
☒ Energy ☐ TMSR ☐ AGC ☐ TMNSF ☐ OPCAP ☐ TMOR ☐ ICAP

3. Specify Contract Duration(Hour Ending)
Begins
Ends
☐ Life of the Unit/Load

Contracts **Batch Scheduler** **File Upload** **Settlement** **Meter Readings** **Power System** **Bids** **Customers** **Bill** **About**

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Fig. 22

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Contracts

Enter Asset Contract Details :

Asset Name: AVALANCHE GAS

Asset Percentage (%): 25.5
(Percent carried to 4 decimal places, e.g. 80.1234)

1. Select Contract Type

Internal ☒ External ☐ Unit ☒ Load ☐ System ☐ Obligation ☐

2. Select Market Product(s)

Energy ☒ TMSR ☐
AGC ☐ TMNSF ☐
OPCAP ☐ TMOR ☐
ICAP ☐

3. Specify Contract Duration(Hour Ending)

Begins 12/15/1998 01:00
Ends 12/15/1998 24:00
☐ Life of the Unit/Load

Clear All **Submit** **Next**

General Info **Details** **Schedule Info** **Pre-Determined Cond** **ICAP Adj**

Contracts Batch Scheduler **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 23

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Contracts

Home

Based on
☒ Unit
☐ External Contract

1. Select Contract Type
☒ Internal
☐ External
☐ Unit
☐ Load
☐ System
☐ Obligation

2. Select Market Product(s)
☒ Energy
☐ AGC
☐ OPCAP
☐ ICAP
☐ TMSR
☐ TMNSF
☐ TMOR

3. Specify Contract Duration(Hour Ending)
 Begins 12/15/1998 01:00
 Ends 12/15/1998 24:00
☐ Life of the Unit/Load **Next**

Enter Unit ID **Unit(s) Selected**
☒ Availability ☐ Generation
☒ EN ☐ AN ☐ OR

Amount (MW)
 (Up to 3 decimal places)

Add to List

ID	Type	Comparison	Power	Condition
Unit: 102	Availability	>=	5.65	END

Remove from List

General Info **Details** **Schedule Info** **Pre-Determined Cond** **ICAP Adj**

Contracts **Batch Scheduler** **File Upload** **Settlement** **Meter Readings** **Power System** **Bids** **Customers** **Bill** **About**

Clear All **Submit**

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Fig. 24

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Contracts

Home

1. Select Contract Type
New Search Result
☒ Internal ☐ External

2. Select Market Product
☒ Energy ☐ AGC ☐ OPCAP ☐ ICAP

3. Specify Contract Duration
Begins 12/15/1998
Ends 12/15/1998
☐ Life of the Unit

Contract Information
--- 1 New Internal Unit Contract received ---
Contract ID : 6486(Energy)
--- Contract(s) General Information ---
Buyer ID : 904 , Seller ID : 903
Unit ID : 101 , Unit Percentage : 25.5
Reference ID : 12345 , Non-Standard ID : 67890
--- Contract Duration(Hour Ending) ---
Start : 12/15/1998 01:00 , End : 12/15/1998 24:00

Condition
END

Add to List

Save **OK** **Next Page**

Signed by: ISO New England

General Info **Schedule Info** **Details** **Pre-Determined Cond** **ICAP Adj**

Remove from List

Clear All **Submit**

Contracts Batch Scheduler **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 25

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Home
Contracts

1. Select Contract Type
New Search Result Helper
☐ Internal ☐ External ☐ Unit ☐ System w/ Unit Char. ☐ System ☐ Firm

2. Select Market Product(s)
☐ ICAP
☒ Energy 1 (sold out of Op. Reserve & no OpCap)
☐ Energy 2 (not sold out of Op. Reserve & w/ OpCap)

3. Specify Contract Duration(Hour Ending)
Begins 12/15/1998 01:00
Ends 12/15/1998 24:00
☐ Life of the Unit/Load

Clear All **Submit** **Next**

General Info **Details** **Schedule Info** **Pre-Determined Cond** **ICAP Adj**

Contracts Batch Scheduler **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 26

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Contracts

Home

1. Select Contract Type
New Search Result Helper
☐ Internal ☐ External
☐ Unit ☐ System w/ Unit Char. ☐ System ☐ Firm

2. Select Market Product(s)
☐ ICAP
☒ Energy 1 (sold out of Op. Reserve & no OpCap)
☐ Energy 2 (not sold out of Op. Reserve & w/ OpCap)

3. Specify Contract Duration(Hour Ending)
Begins 12/15/1998 01:00
Ends 12/15/1998 24:00
☐ Life of the Unit/Load **Next**

Contract ID

Parties
☒ Seller Mercedes Utility
☐ Buyer New York

☐ With Pre-determined Condition (for ext. purchase)

Reference ID 1234
Non-Standard ID 56789
ICAP Contract ID

Hydro-Quebec

Not Applicable to Hydro Quebec

General Info **Details** **Schedule Info** **Pre-Determined Cond** **ICAP Adj**

Clear All **Submit**

Contracts Batch Scheduler **File Upload Settlement** **Bids Customers** **Bill About**

[illegible]

[illegible]

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Fig. 29

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Home

Contracts

Based on
☒ Unit
☐ External Contract

Enter Unit ID
Unit(s) Selected
Availability ☒
Amount (MW)
(Up to 3 decimal places)
Comparison: ☒ >= ☐ <
Add to List

1. Select Contract Type
Internal ☐ External ☒
Unit ☐ System w/ Unit Char. ☐
System ☐ Firm ☐

2. Select Market Product(s)
☐ ICAP
☒ Energy 1
(sold out of Op. Reserve & no OpCap)
☐ Energy 2
(not sold out of Op. Reserve & w/ OpCap)

3. Specify Contract Duration(Hour Ending)
Begins 12/15/1998 01:00
Ends 12/15/1998 24:00
☐ Life of the Unit/Load
Next

Remove from List

ID	Type	Comparison	Power	Condition
Unit 103	Availability	>=	10.25	END

General Info **Details** **Schedule Info** **Pre-Determined Cond** **ICAP Adj.**

Contracts **Batch Scheduler** **File Upload** **Settlement** **Bids** **Customers** **Bill** **About**

Applet MAIN_APPLET running

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Fig. 30

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Contracts

1. Select Search Criteria
Choose at least one :

☐ Contract ID
☐ Reference ID
☒ Type
 ☐ Internal
 ☒ External
 ☐ Unit
 ☐ Load
 ☒ System
 ☐ Firm
 ☐ Obligation

Optional :
☐ Party
☐ Seller Nm
☐ Buyer Nm
☐ Market Product
☐ Energy
☐ Duration
 Begins / /
 Ends / /

Find

General Info **Details** **Schedule Info** **Pre-Determined Cond** **ICAP Adj**

Clear All **Submit**

Contracts **Batch Scheduler** **File Upload** **Settlement** **Meter Readings** **Power System** **Bids** **Customers** **Bill** **About**

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Fig. 31

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Home
Contracts

2. Select Existing Contract
New Search Result Helper

Contract ID	Reference ID	Int/Ext
510		Internal
511		Internal
512		Internal
513		Internal
514		Internal
515		Internal
6486	12345	Internal
6326		Internal
6327		Internal
6346		Internal
6366		External
6386	SNTAfterNoon	External
6387	SNTAfterNoon	External

View Edit Create
Clear All Submit

General Info Details Schedule Info Pre-Determined Cond ICAP Adj

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

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Fig. 32

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Home
Customers

Customer Detail

Customer Type
☒ Participant
☐ Non-Participant
☐ Pool Operator

Pool Status
☒ Active
☐ Suspended
☐ Terminated

Governance Requirements Status
☐ All-Requirements Participant

Settlement Status
☒ Will Be Settled
☐ Special Contract Processing (HQ)
☒ Has Voting Share

General Address Contact Duns Related Assets Governance
Customer ID 903 As of 11/11/1998
Customer Name Cadillac Gen Co. End / /

Submit Reset

3201

Contracts Batch Scheduler **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

OK

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Fig. 33

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What's Related

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Home

Customers

Address

General

Type

Street

City

State/Province

Postal Code

Country

Notes:

Customer ID: 903

Customer Name: Cadillac Gen Co.

As of: 11/11/1998

End: / /

Submit Reset

Contracts Batch Scheduler

File Upload Settlement

Meter Readings Power System

Bids Customers

Bill About

OK

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Fig. 34

Netscape
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What's Related

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Home

Customers

Contact

General **Address** **Contact** **Duns** **Related** **Assets** **Governance**

Customer ID 903 **As of** 11/11/1998 **End** / / **Submit** **Reset**

Customer Name Cadillac Gen Co.

Type General **Salutation** Mrs. **Last Name** Meyers **First Name** Natalie **Title** Carpenter **Phone** (816) 45-2600 **Ext** 23 **Fax** (203) 888-8888 **e Mail** company@cadillac.com

Notes:
Notes as of Nov 8

Search On
☒ Name ☐ ID
As of: 11/10/1998 **Find**

Name Cadillac Gen Co. **ID** 903 **OK**

Contracts Batch Scheduler **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 35

Netscape
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energy-exchange™ Home
Customers

Duns

Number:

Effective From/To: As Of:

Duns Number 11-223-3445 **From** 11/11/1998 **To**

General **Address** **Contact** **Duns** **Related** **Assets** **Governance**

Customer ID 903 **As of**

Customer Name Cadillac Gen Co. **End**

Search On ☐ Name ☐ ID **As of:**

Name Cadillac Gen Co. **ID** 903

Contracts **Batch Scheduler** **File Upload** **Settlement** **Meter Readings** **Power System** **Bids** **Customers** **Bill** **About**

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Fig. 36

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energy-exchange™

Home

Customers

To associate this customer with other existing customers, select the appropriate customer from the customer list table, set the effective date, and click "Add".

☒ Name ☐ ID

Name	ID
Cadillac Gen Co.	903
Mustang Retail Co.	904
Rolls Royce Utility	905

Effective From/To

From

En ☒

Related Customer Name **From** **To**

Mustang Retail Co. 11/06/1998 11/07/19

General **Address** **Contact** **Duns** **Related** **Assets** **Governance**

Customer ID As of

Customer Name End

Contracts **Batch Scheduler** **File Upload** **Settlement** **Meter Readings** **Power System** **Bids** **Customers** **Bill** **About**

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Fig. 37

File Edit View Go Communicator Help

Bookmarks Go to: <https://www.iso-ne.com>

What's Related

Home

Customers

New

Existing

Search On

☐ Name
 ☐ ID

As of:

11/10/1998

Find

Name

Cadillac Gen Co.

ID

903

OK

Assets

For additional information or to assign an asset, go to "Power System Maintenance"

Asset Name	Type	Type of Responsibility	% Owned
PANTHER P/S PUMP	Load Facility	Lead Participant/ Meter Reader	40.0
AVALANCHE GAS	Generating Unit		5.0E-4
MIGHTY DUCK LOAD	Load Facility		19.00001
PANTHER P/S LOAD	Generating Unit		80.9999

General

Address

Contact

Duns

Related

Assets

Governance

Customer ID

903

As of

11/11/1998

Customer Name

Cadillac Gen Co.

End

/ /

Submit

Reset

Contracts Batch Scheduler

File Upload Settlement

Meter Readings Power System

Bids Customers

Bill About

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Fig. 38

Netscape
File Edit View Go Communicator Help
Go to: <https://www.iso-ne.com>
Bookmarks What's Related

energy-exchange™
Home Customers

Governance
For the month of: October 1998

Peak Load (P) 10.0
Total Load (E) 50.
Generation Ownership (C) 150.
Entitlements (X) 75.
Transmission kV-Miles (M) 5,799
Transmission Revenue Requirement (R) \$ 60.00

Submit Reset Clear

Contact Duns Related Assets Governance User Profile Agent

Customer ID 903 As of 11/11/1998
Customer Name Cadillac Gen Co. End Submit

Contracts Batch Scheduler **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

Search On
New Existing
Name C* ID
As of: 11/10/1998 Find
Name ID
Cadillac Gen Co. 903
OK

38/81

Fig. 39

Netscape
File Edit View Go Communicator Help
Bookmarks Go to: <https://www.iso-ne.com> What's Related

energy-exchange™

Home

Customers

User Profile Maintenance

New Existing
Search On
☒ Name ☐ ID
As of: 11/10/1998 **Find**

Customer ID 903
Customer Name Cadillac Gen Co. **OK**

User List 555555555 **Add Remove**

User Name test **Find**

Begin Date 11/11/1998 **End**

Access Area **Modify View None**

Customer **Settlement**
Governance **Pricing**
Power System **Set Job Sub**
Bidding Info **Billing Job Sub**
Bidding Maint **Gov. Job Sub**
Contract **Metering**
Bill **Operations**

Access Area **Modify View None**

Submit Reset

Contact Duns Related Assets Governance User Profile Agent

Customer ID 903 **As of** 11/11/1998 **Submit Reset**

Customer Name Cadillac Gen Co. **End** / /

Contracts Batch Scheduler **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 40

Netscape
File Edit View Go Communicator Help
Bookmarks Go to: <https://www.iso-ne.com>
What's Related

energy-exchange™

Home
Customers

Agent Maintenance

Effective From/To
From: 11/11/1998
End: ☐

Agent
Mustang Retail Co.
11/10/1998

Reset

Add **Remove** **Submit** **Reset**

Name	ID
Mustang Retail Co.	904
Rolls Royce Utility	905
Mercedes Utility	906
Nissan NUG	908
New York	909
Hydro-Quebec	50001

Contact **Duns** **Related** **Assets** **Governance** **User Profile** **Agent**

Customer ID 903 **As of** 11/11/1998 **End** / /

Customer Name Cadillac Gen Co.

Submit **Reset**

Contracts **Batch Scheduler** **File Upload** **Settlement** **Meter Readings** **Power System** **Bids** **Customers** **Bill** **About**

OK

Netscape

File Edit View Go Communicator Help

Bookmarks

 Go to:

What's Related

Power System

Home

Network Area

New

Existing

Search Results

32

33

34

35

36

NEPOOL

PTF

External

MEPCO

HQ

OK

Reset

Submit

Network Node

Generating Unit

Load Facility

Tie Line

32

NEPOOL

This Information effective:

11/13/1998

4101

Network Area Identifier:

Network Area Description:

Network Nodes NOT in this Network Area

Identifier	Description
404	HQ/C
405	HQ
406	MEPCO
407	NB
408	NY

<< Add

Remove>>

Network Nodes in this Network Area

Identifier	Description
401	PTF
402	WEST
403	EAST

Contracts Batch Scheduler

File Upload Settlement

Meter Readings Power System

Bids Customers

Bill About

41/81

Fig. 42

Netscape
File Edit View Go Communicator Help
Bookmarks Go to: <https://www.iso-ne.com>
What's Related

energy-exchange™
Power System
Home

Network Area Network Node Generating Unit Load Facility Tie Line

New Existing Search Results

Find Network Node

1. Enter Search Criteria

☐ Node Identifier
☐ Area Identifier

Submit Reset Find

Network Area

Network Areas associated with this Network Node

Identifier	Description
32	NEPOOL
35	MEPCO

<< Add Remove >>

Network Areas NOT associated with this Network Node

Identifier	Description
33	PTF
34	External
36	HQ

Details

Details

Network Area Generating Unit Load Facility Tie Line

This Information effective: 11/13/1998

Network Node Identifier: 402
Network Node Description: WEST

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

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Fig. 43

Netscape
File Edit View Go Communicator Help
Bookmarks Go to: <https://www.iso-ne.com> What's Related

energy-exchange™ **Power System** **Home**

Network Area **Network Node** **Generating Unit** **Load Facility** **Tie Line**

Existing **Search Results**

Find Network Node

1. Enter Search Criteria

☐ Node Identifier
☐ Area Identifier

Find **Reset** **Submit**

Generating Unit
Generating Units associated with this Network Node

Identifier	Name
103	LIGHTNING HYDRO
104	DALLAS STAR

Details

1. Enter Search Criteria
Unit Identifier

2. Find

3. Select Generating Unit

Identifier	Name	Node
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

<<Move

Network Area **Generating Unit** **Load Facility** **Tie Line**

Network Node Identifier:
Network Node Description:

This Information effective:

Contracts **Batch Scheduler** **File Upload** **Settlement** **Meter Readings** **Power System** **Bids** **Customers** **Bill** **About**

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Fig. 44

Netscape
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Bookmarks Go to: <https://www.iso-ne.com> What's Related

energy-exchange™
Home Power System

Network Area Network Node Generating Unit Load Facility Tie Line

Find Network Node
1. Enter Search Criteria
☐ Node Identifier
☐ Area Identifier
Find Submit Reset

Load Facility
Load Facilities associated with this Network Node
Network Node Identifier: 402
Network Node Description: WEST
This information effective: 11/13/1998

1. Enter Search Criteria
Load Identifier
2. Find
3. Select Load Facility
Identifier Name Node
<<Move

Identifier	Name
201	MIGHTY DUCK LOAD
202	HURRICANE LOAD
206	COYOTE LOAD
1402	402 Losses

Details

Network Area Generating Unit Load Facility Tie Line

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

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Fig. 45

energy-exchange™

Home Power System

Network Area Network Node Generating Unit Load Facility Tie Line

Network Node Identifier: 402 This information effective: 11/13/1998
 Network Node Description: WEST

Find Network Node

1. Enter Search Criteria

☒ Node Identifier
☐ Area Identifier

Tie Line

Tie Lines associated with this Network Node

Identifier	Name	Type
301	Red	Mon
305	Blue	Mon
306	Indigo	Rec
307	Violet	Rec

1. Enter Search Criteria
 Tie Line Identifier

2. Find

3. Select Tie Line

Identifier	Name
<input type="text"/>	<input type="text"/>

☒ Monitor ☐ Receive

Network Area Generating Unit Load Facility Tie Line

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

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Fig. 46

The screenshot displays a web browser window with the Netscape menu and address bar showing "https://www.iso-ne.com". The website header includes the "energyexchangeTM" logo, a "Power System" link with a power line icon, and a "Home" link with a house icon. The main navigation bar contains "Network Area", "Network Node", "Generating Unit", "Load Facility", "Tie Line", "General", "Status", "Staffing", "Ownership", "Bids", "Customers", "Meter Readings", "Power System", "File Upload", "Settlement", "Contracts", "Batch Scheduler", "Bill", and "About".

The "Generating Unit" section is active, showing a "Search Results" dialog box with the title "2. Select Generating Unit". The dialog contains a table with the following data:

Identifier	Name
101	AVALANCHE GAS
102	PANTHER P/S GEN
103	LIGHTNING HYDRO
104	DALLAS STAR


Buttons for "New", "Existing", "Search Results", "Submit", "Reset", and "OK" are present. To the right of the dialog, there are input fields for "Generating Unit Identifier" (101) and "Generating Unit Name" (AVALANCHE GAS), along with a "Changes made effective from:" date field (11/13/1998).

The "Generating Unit Details" section includes a "Plant Name" field (X), an "Operating Status" dropdown (Active), and a "Type" dropdown (Gas). Below these are three capacity fields: "Winter Claimed Capacity" (534.0 MW), "Summer Claimed Capacity" (551.37 MW), and "Claimed Low Limit" (60.0 MW).

The "Network Node Association" section shows a "Network Node Identifier" dropdown (403) and a "Details" button.

Netscape File Edit View Go Communicator Help
 https://www.iso-ne.com Go to: What's Related

energy-exchange™ Power System Home



Network Area Network Node Generating Unit Load Facility Tie Line

New Existing Search Results

Search Results

2. Select Generating Unit

Identifier	Name
101	AVALANCHE GAS
102	PANTHER P/S GEN
103	LIGHTNING HYDRO
104	DALLAS STAR

Submit Reset OK

Generating Unit Identifier: 101 Changes made effective from: 11/13/1998
 Generating Unit Name: AVALANCHE GAS

AGC Market

Max# of AGC Ranges 2

Black Start Capability
☐ Yes ☒ No

Market Status

Market	Status
Energy	Active
AGC	Active
TMSR	Active
TMNSR	Active
TMOR	Active

General Status Staffing Ownership

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

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Fig. 48

Netscape

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What's Related

energy-exchange™

Power System

Home

New

Existing

Search Results

2. Select Generating Unit

Identifier	Name
101	AVALANCHE GAS
102	PANTHER P/S GEN
103	LIGHTNING HYDRO
104	DALLAS STAR

OK

Submit

Reset

Generating Unit

Load Facility

Tie Line

Generating Unit Identifier:

101

Generating Unit Name:

AVALANCHE GAS

Changes made effective from:

11/13/1998

Weekly Staffing

Days	Start Time	Stop Time	Call-In Time	Unstaffed
Weekdays	1900	1900	2.0 hrs.	<input type="checkbox"/>
Saturday	1900	1900	2.0 hrs.	<input type="checkbox"/>
Sunday	1900	1900	2.0 hrs.	<input type="checkbox"/>

Use the same times for all days

All Days

General

Status

Staffing

Ownership

Contracts Batch Scheduler

File Upload Settlement

Meter Readings Power System

Bids Customers

Bill About

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Fig. 49

Netscape
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Bookmarks Go to: <https://www.iso-ne.com> What's Related

energy-exchange™ **Power System** **Home**

Network Area **Network Node** **Generating Unit** **Load Facility** **Tie Line**

Generating Unit Identifier: 101
Generating Unit Name: AVALANCHE GAS
Changes made effective from: 11/13/1998

Search Results

2. Select Generating Unit

Identifier	Name
101	AVALANCHE GAS
102	PANTHER P/S GEN
103	LIGHTNING HYDRO
104	DALLAS STAR

Submit Reset OK

1. Enter Customer Search Criteria

☒ Customer ID ☐ Customer Name Find

2. Select Customer

Identifier	Name

OK

Customer **Share**

Cadillac Gen Co.	39.9999
Rolls Royce Utility	60.0001
Total	100.0000

Lead Participant: Cadillac Gen Co.
Meter Reader: Cadillac Gen Co.

General Status Staffing Ownership

Contracts **Batch Scheduler** **File Upload** **Settlement** **Meter Readings** **Power System** **Bids** **Customers** **Bill** **About**

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Fig. 50

Netscape
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Go to: <https://www.iso-ne.com>
What's Related

energy-exchange™ Home

Power System

Network Area Network Node Generating Unit **Load Facility** Tie Line Ownership

New Existing **Search Results**

Identifier	Name
201	MIGHTY DUCK LOAD
202	HURRICANE LOAD
203	SABRE LOAD
204	FLAME LOAD
205	CAPITAL LOAD
206	COYOTE LOAD

Submit Reset OK

2. Select Load Facility

Load Facility Identifier: 202
Load Facility Name: HURRICANE LOAD

Changes made effective from: 11/13/1998

Load Facility Details

Estimated Peak Load: 1000.0 MW
Operating Status: Active
Type: Normal

Dispatchable: Yes (selected) No
Metered: Yes No

Network Node Association

Network Node Identifier: 402
Details

General Ownership

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

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Fig. 51

energy-exchange™

Home Power System

Network Area Network Node Generating Unit Load Facility Tie Line Search Results Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

Go to: <https://www.iso-ne.com>

What's Related

Changes made effective from: 11/13/1998

Load Facility Identifier: 202 Load Facility Name: HURRICANE LOAD

Customer Name Ownership Share % Customer ID Customer Name Find OK

1. Enter Customer Search Criteria

2. Select Load Facility

Identifier	Name
201	MIGHTY DUCK LOAD
202	HURRICANE LOAD
203	SABRE LOAD
204	FLAME LOAD
205	CAPITAL LOAD
206	COYOTE LOAD

Submit Reset OK

Customer Name Ownership Share % Customer ID Customer Name Find OK

1. Enter Customer Search Criteria

2. Select Customer

3. Select Customer

Customer	Share	Identifier	Name
Mustang Retail Co.	100.0000		
Total	100.0000		

Lead Participant Meter Reader OK

General Ownership

Fig. 52

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Fig. 53

energy-exchange™ **Power System** **Home**

Network Area | Network Node | Generating Unit | Load Facility | Tie Line

File Edit View Go Communicator Help
 Bookmarks Go to: <https://www.iso-ne.com> What's Related

1. Enter Customer Search Criteria

Changes made effective from: 11/13/1998

Customer

Customer ID: *
 Customer Name:

2. Select Tie Line

Tie Line Identifier: 302
 Tie Line Name: Orange

3. Select Customer

Customer

Customer Name:
 Meter Reader: ☐

Meter Reader

Meter Reader:

Search Results

Identifier	Name
301	Red
302	Orange
303	Yellow
304	Green
305	Blue
306	Indigo

General Ownership

1. Enter Customer Search Criteria

Customer ID: *
 Customer Name:

2. Select Tie Line

Tie Line Identifier: 302
 Tie Line Name: Orange

3. Select Customer

Customer

Customer Name:
 Meter Reader: ☐

Meter Reader

Meter Reader:

Contracts Batch Scheduler **File Upload Settlement** **Bids Customers** **Bill About**

Submit Reset OK

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Fig. 54

Netscape
File Edit View Go Communicator Help
Bookmarks Go to: <https://www.iso-ne.com> What's Related

energy-exchange™ Batch Scheduler Home

General Billing Log

Select a Job:

- Settle All Hourly Markets
- Settle An Hourly Market
- Settle Installed Capability Market
- Confirm Settlement Data
- Confirm All Hourly Settlement Data
- Prepare Bill
- Print Bill Invoice
- Calculate Governance Variables
- Calculate Voting Shares
- Perform Monthly Meter Adjustment
- Determine Hourly Entitlements

Run on:

Market Service

Begin Date

Begin Time

End Date

End Time

Priority ☐ High ☐ Medium ☒ Low

Submit **Clear**

Contracts **File Upload** **Bids** **Bill**
Batch Scheduler **Settlement** **Customers** **About**

Meter Readings **Power System**

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Fig. 55

Netscape
File Edit View Go Communicator Help
Bookmarks Go to: <https://www.iso-ne.com>
What's Related

energy-exchange™
Batch Scheduler

Home

General Billing Log

Select a Job:

- Settle All Hourly Markets
- Settle An Hourly Market
- Settle Installed Capability Market
- Confirm Settlement Data
- Confirm All Hourly Settlement Data
- Prepare Bill
- Print Bill Invoice
- Calculate Governance Variables
- Calculate Voting Shares
- Perform Monthly Meter Adjustment
- Determine Hourly Entitlements

Run on: / /

Due Date: / /

Priority: ☐ High ☐ Medium ☒ Low

Submit **Clear**

Contracts
Batch Scheduler

File Upload
Settlement

Meter Readings
Power System

Bids
Customers

Bill
About

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Fig. 56

Netscape
File Edit View Go Communicator Help
Bookmarks Go to: <https://www.iso-ne.com>
What's Related

energy-exchangeTM
Batch Scheduler

Home

General Billing Log

Select a Job:

- Settle All Hourly Markets
- Settle An Hourly Market
- Settle Installed Capability Market
- Confirm Settlement Data
- Confirm All Hourly Settlement Data
- Prepare Bill
- Print Bill Invoice
- Calculate Governance Variables
- Calculate Voting Shares
- Perform Monthly Meter Adjustment
- Determine Hourly Entitlements

Priority ☐ High ☐ Medium ☒ Low

Run on:

Begin Date

Begin Time

Submit Clear

Contracts
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Fig. 57

Netscape
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energy-exchange™ Batch Scheduler **Home**

General Billing Log Rollback Bills

Select Billed Services and Data:

	Bill Start Date	Bill End Date	Bill End Date	Bill End Date
<input checked="" type="checkbox"/> Energy	01/15/1998 01:00:00 AM	01/15/1998 01:00:00 AM	01/15/1998	06:00:00
<input checked="" type="checkbox"/> AGC	01/15/1998 01:00:00 AM	01/15/1998 01:00:00 AM	01/15/1998	06:00:00
<input checked="" type="checkbox"/> TMSR	01/15/1998 01:00:00 AM	01/15/1998 01:00:00 AM	01/15/1998	06:00:00
<input checked="" type="checkbox"/> TMSNR	01/15/1998 01:00:00 AM	01/15/1998 01:00:00 AM	01/15/1998	06:00:00
<input checked="" type="checkbox"/> TMOR	01/15/1998 01:00:00 AM	01/15/1998 01:00:00 AM	01/15/1998	06:00:00
<input type="checkbox"/> Installed Capability	01/01/1998 00:00:00 AM	01/15/1998 00:00:00 AM	2/1/1998	00:00:00
<input checked="" type="checkbox"/> Operable Capability	01/15/1998 01:00:00 AM	01/15/1998 01:00:00 AM	01/15/1998	06:00:00
<input type="checkbox"/> EHV/LV	12/01/1997 00:00:00 AM	12/01/1997 00:00:00 AM		
<input type="checkbox"/> Tariff	12/01/1997 00:00:00 AM	12/01/1997 00:00:00 AM		
<input type="checkbox"/> Adjustment	12/01/1997 00:00:00 AM	12/01/1997 00:00:00 AM		
<input type="checkbox"/> Bill Data	12/01/1997 00:00:00 AM	12/01/1997 00:00:00 AM		

Submit

Contracts **File Upload** **Bids** **Bill**
Batch Scheduler **Settlement** **Customers** **About**

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Fig. 58

Netscape
File Edit View Go Communicator Help
Bookmarks Go to: <https://www.iso-ne.com> What's Related

energy-exchange™ Batch Scheduler Home

General Billing Log Rollback Bills

Select Billed Services and Data:

<input checked="" type="checkbox"/> Energy	Bill Start Date	01/15/1998 00:00:00 AM	Bill End Date	1/15/1998	01:00:00
<input checked="" type="checkbox"/> AGC	Bill Start Date	01/15/1998 00:00:00 AM	Bill End Date	1/15/1998	01:00:00
<input checked="" type="checkbox"/> TMSR	Bill Start Date	01/15/1998 00:00:00 AM	Bill End Date	1/15/1998	01:00:00
<input checked="" type="checkbox"/> TMSNR	Bill Start Date	01/15/1998 00:00:00 AM	Bill End Date	1/15/1998	01:00:00
<input checked="" type="checkbox"/> TMOR	Bill Start Date	01/15/1998 00:00:00 AM	Bill End Date	1/15/1998	01:00:00
<input checked="" type="checkbox"/> Operable Capability	Bill Start Date	01/15/1998 00:00:00 AM	Bill End Date	1/15/1998	01:00:00

Submit

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

Applet MAIN_APPLET running

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Fig. 59

Netscape
File Edit View Go Communicator Help
Bookmarks Go to: <https://www.iso-ne.com> What's Related

energy-exchange™ Batch Scheduler Home

General Billing Log

Index number:

Index	Job Name	Priority	Status	Parameter	Value
1	Prepare Bill	Low	Completed Successfully		
2	Settle All Hourly Markets	Low	Completed Successfully	Market Service	Energy
				Begin Date Time	Thu Jan 15 00:00:00 EST 1998
				End Date Time	Thu Jan 15 01:00:00 EST 1998

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

Applet MAIN_APPLET running

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Fig. 60

Netscape
File Edit View Go Communicator Help
Bookmarks Go to: <https://www.iso-ne.com> What's Related

energy-exchange™ Settlement Home

Administered Price Parameter Maintenance

Selection

Market: Energy

Date: From: Jan 15, 1998 00:00 To: Jan 15, 1998 01:00

Retrieve

Submit

Energy Market Clearing Price

From	To	Price	Type
01/15/1998 0:00	01/15/1998 1:00	65.08	Data Correction

Update

Reset

Contracts Batch Scheduler

File Upload Settlement

Meter Readings Power System

Bids Customers

Bill About

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Fig. 61

Netscape
File Edit View Go Communicator Help
Go to: <https://www.iso-ne.com>
What's Related

energy-exchange™
Settlement Home

Administered Price **Parameter Maintenance**

Selection
Market: AGC
Date: From: Jan 15, 1998 00:00 To: Jan 15, 1998 01:00
Retrieve
Submit

AGC Market Clearing Price

From	To	Price	Type
01/15/1998 0:00	01/15/1998 1:00	50.0	Clearing Price

Update Reset

From: 01/15/1998 0:00 To: 01/15/1998 1:00
Clearing Price: 000000050.00
Type: Clearing Price
Update Reset

Contracts Batch Scheduler **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 62

Netscape
File Edit View Go Communicator Help
Bookmarks Go to: <https://www.iso-ne.com> What's Related

energy-exchange™ Settlement Home

Parameter Maintenance

Parameter: Trading Interval

As Of	Market	Length	Measure
01/01/1998 14:17	Energy	1	HOUR

Select Market Service

Energy	
AGC	
TMSR	
TMSR	
TMOR	

Retrieve

Entering Trading Interval value for Energy

As Of	Market	Length	Measure
12/1/1998 00:00		0	MINUTE

Add Reset Submit

Contracts Batch Scheduler **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 63

Netscape
File Edit View Go Communicator Help
Bookmarks Go to: <https://www.iso-ne.com> What's Related

energy-exchange™ Settlement Home

Parameter Maintenance

Administered Price:

Parameter:

As Of	Until	Value
01/01/1998 0:00	01/01/1999 0:00	0.0

Entering Hydro-Quebec Firm Energy Contract Rate Value

As Of:

As Of	Until	Value	
1 / 1/1998	00:00	1 / 1/1999 00:00	0.0

Contracts Batch Scheduler **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 64

Netscape
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 Bookmarks Go to: <https://www.iso-ne.com> What's Related

energy-exchange™ Settlement Home

Parameter Maintenance

Administered Price ISO Objective Capability

Parameter: Date

Year: 1998-1999

Year	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
1994-1995												
1995-1996												
1996-1997												
1997-1998												
1998-1999	5	10	15	20	25	30	35	40	45	50	55	60

Entering ISO Objective Capability Value

Year	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
1998-1999	5	10	15	20	25	30	35	40	45	50	55	60

Contracts Batch Scheduler **File Upload Settlement** **Bids Customers** **Bill About**

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Fig. 65

Netscape
File Edit View Go Communicator Help
Bookmarks Go to: <https://www.iso-ne.com> What's Related

energy-exchange™ **Settlement** **Home**

Parameter Maintenance

Administered Price **Parameter:**

As Of	Until	Value
12/01/1998 0:00	01/01/1999 0:00	20.0

Entering Phase Out Factor Value

As Of	Until	Value
12/1/1998 <input type="text" value="a"/> <input type="text" value="p"/>	<input type="text" value="a"/> <input type="text" value="p"/> 1/1/1999	00:00 <input type="text" value="a"/> <input type="text" value="p"/> 20.0

Contracts **File Upload** **Bids** **Bill**
Batch Scheduler **Settlement** **Customers** **About**

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Fig. 66

Netscape
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 Bookmarks Go to: <https://www.iso-ne.com>
 What's Related

energy-exchange™

Home
Settlement
Contracts Batch Scheduler
File Upload Settlement
Meter Readings Power System
Bids Customers
Bill About

Parameter Maintenance

Administered Price

As Of	Until	Value
12/01/1998 0:00	01/01/1999 0:00	20.0

New Unit Adj. Factor

From	To	Value
Dec 1, 1998 00:00	Jan 1, 1999 00:00	20.0

Entering New Unit Adjustment Factor value for PANTHER P/S PUMP

As Of	Until	Value
12/1/1998 00:00	1/1/1999 00:00	20.0

Select Asset

PANTHER P/S PUMP
 LIGHTNING HYDRO
 PANTHER P/S GEN
 AVALANCHE GAS
 MIGHTY DUCK LOAD

Add **Reset** **Submit** **Retrieve**

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Fig. 67

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Parameter Maintenance

Administered Price **Adjusted Monthly Peak**

Parameter: Date **Adjusted Monthly Peak**

From: Oct 1, 1998 **To:** Nov 1, 1998 **OK**

As Of	Until	Value
10/1/1998	11/1/1998	30.0

Select Customer

Cadillac Gen Co.
Mustang Retail Co.
Rolls Royce Utility
Mercedes Utility
Nissan MLJG

Retrieve

Entering Adjusted Monthly Peak Load value for Cadillac Gen Co.

As Of	Until	Value
10/1/1998	11/1/1998	00:00
		00:00
		30.0

Add **Reset** **Submit**

Contracts Batch Scheduler **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 68

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Administered Price **Parameter Maintenance**

Parameter:

Trading Interval	As Of	Market	Length	Measure
Est. New Unit Adj. Factor	01/01/1998 14:17	Energy	1	HOUR

Select Market Service

Energy	As Of	Market	Length	Measure
AGC	12/1/1998	00:00	0	MINUTE

Retrieval

Entering Trading Interval value for Energy

Add **Reset** **Submit**

Contracts Batch Scheduler **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 69

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energy-exchange™ Settlement Home

Administered Price **Parameter Maintenance**

Parameter:

Trading Interval	Market	Length	Measure
01/01/1998 14:17	Energy	1	HOUR

Entering Trading Interval value for Energy

As Of	Market	Length	Measure
12/1/1998 00:00		0	MINUTE

Add Reset Submit

Select Market Service

Energy	
AGC	
TMSR	
TMNSR	
TMOR	

Retrieve

Contracts Batch Scheduler **File Upload Settlement** **Bids Customers** **Bill About**

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Fig. 70

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energy-exchange™ **Home**

Bill

Adjustments **Market Systems**

New Existing Search Helper

Choose Adjustment Type:
☒ Balanced
☐ UnBalanced

Adjustment Dates: 11/17/1998 09:32:09

Adjustment Reason: Reactivation Adjustment
Document Reference: 11-01-98 React Adjust.doc
☒ Enclosure

Adjustment Description:
Cadillac Gen Co. was undercharged for past adju

Customer Name	Adjustment Amount (\$)
Cadillac Gen Co.	100.00
Mercedes Utility	-100.00

Net Balance: \$ 0.00

Clear Fields Submit

Contracts **File Upload** **Bids** **Bill**
Batch Scheduler Settlement System Customers About

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Fig. 71

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energy-exchange™ **Home**

Bill

Adjustments **Market System** **Customer Invoice** **Invoice Processing Date** 11-17-1998

	Energy	AGC	TMSR	TMNSR	Receivables	Payables
Cadillac Gen Co.	\$ 3,300.00	\$ 0.00	\$ 0.00	\$ 256.00		\$ 7,011.00
Mustang Retail Co.	\$-1474.14	\$-2555.16	\$ 0.00	\$-327.58	\$ 6,977.58	
Rolls Royce Utility	\$-1024.14	\$-2555.16	\$ 0.00	\$ 56.41	\$ 3,548.57	
Mercedes Utility	\$-801.71	\$ 5,110.33	\$ 0.00	\$ 15.17		\$ 3,515.16
Hydro-Quebec	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		\$ 0.00
NEPOOL	\$ 0.00					\$ 0.00
Total	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 10,526.16	\$ 10,526.16


Contracts Batch Scheduler **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

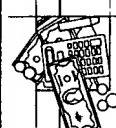
Details

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Fig. 72

Netscape
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energy-exchange™  **Home**

Bill 

Market System

Adjustments **Market System Details** **Customer Invoice**

Customer Name: Net Invoice Total: Invoice Processing Date:

Billed Service

	Date	Amount
<input checked="" type="checkbox"/> Energy	01/15/1998 00:00:00-01/15/1998 01:00:00	\$ 3,800.00
<input type="checkbox"/> Energy Market		\$ 3,800.00
<input checked="" type="checkbox"/> Sum of Energy Settlement		\$ 3,300.00
<input checked="" type="checkbox"/> Sum of Uplift Pmt.		\$ 500.00
<input checked="" type="checkbox"/> Sum of Congestion Uplift Chg.		\$ 0.00
<input checked="" type="checkbox"/> Sum of Uplift Chg.		\$ 0.00
<input type="checkbox"/> Uplift Charge		\$ 0.00
<input checked="" type="checkbox"/> AGC	01/15/1998 00:00:00-01/15/1998 01:00:00	\$ 0.00
<input checked="" type="checkbox"/> TMSR	01/15/1998 00:00:00-01/15/1998 01:00:00	\$ 4,000.00
<input checked="" type="checkbox"/> TMSR	01/15/1998 00:00:00-01/15/1998 01:00:00	\$ 256.00
<input checked="" type="checkbox"/> TMOR	01/15/1998 00:00:00-01/15/1998 01:00:00	\$ 50.00
<input checked="" type="checkbox"/> Operable Capability	01/15/1998 00:00:00-01/15/1998 01:00:00	\$ 3,405.00

Contracts Batch Scheduler **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 73

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energy-exchange™ Home
Meter Readings
Meter Readings Power System
Bids Customers
Bill About

Hourly Meter Readings Monthly Meter Readings

Start Results

1. Select Date Nov 11 1998

2. Select Asset Type All Assets

3. Select Display Criteria
☒ All Assets
☐ Assets with missing readings

4. Retrieve Asset List Retrieve


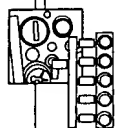

Select a Company Cadillac Gen Co. Clear All

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

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Fig. 74

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Meter Readings Home

Hourly Meter Readings Monthly Meter Readings

Start Results

5. Select Asset Name

Asset Name	Asset Type	Unit
AVALANCHE GAS		

Select a Company
Cadillac Gen Co.

Clear All

6. Enter readings for AVALANCHE GAS on Nov 11, 1998

Hour Ending	Readings (MWh)
0200	50.0
0300	50.0
0400	50.0
0500	50.0
0600	50.0
0700	50.0
0800	50.0
0900	50.0
1000	50.0
1100	50.0
1200	50.0
1300	50.0

Reset Grid

Submit

Total MWh: 600.0

Contracts Batch Scheduler

File Upload Settlement

Meter Readings Power System

Bids Customers

Bill About

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Fig. 75

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energy-exchange™ Home
Meter Readings

Hourly Meter Readings Monthly Meter Readings

Start Results

1. Select Year 1998

2. Select Asset Type All Assets

3. Select Display Criteria
☒ All Assets
☐ Assets with missing readings

4. Retrieve Asset List Retrieve

Select a Company
Cadillac Gen Co. Clear All

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

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Fig. 76

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File Edit View Go Communicator Help
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energy-exchange™ **Meter Readings** **Home**

Hourly Meter Readings Monthly Meter Readings

5. Select Asset Name

Asset Name	Asset Type	Unit
AVALANCHE GAS		

Select a Company
Cadillac Gen Co.

Clear All

6. Enter readings for AVALANCHE GAS for 1998

Month	Readings (MWh)
January	50.0
February	50.0
March	50.0
April	50.0
May	50.0
June	50.0
July	50.0
August	50.0
September	50.0
October	50.0
November	50.0
December	50.0

Reset Grid **Submit**

Contracts Batch Scheduler **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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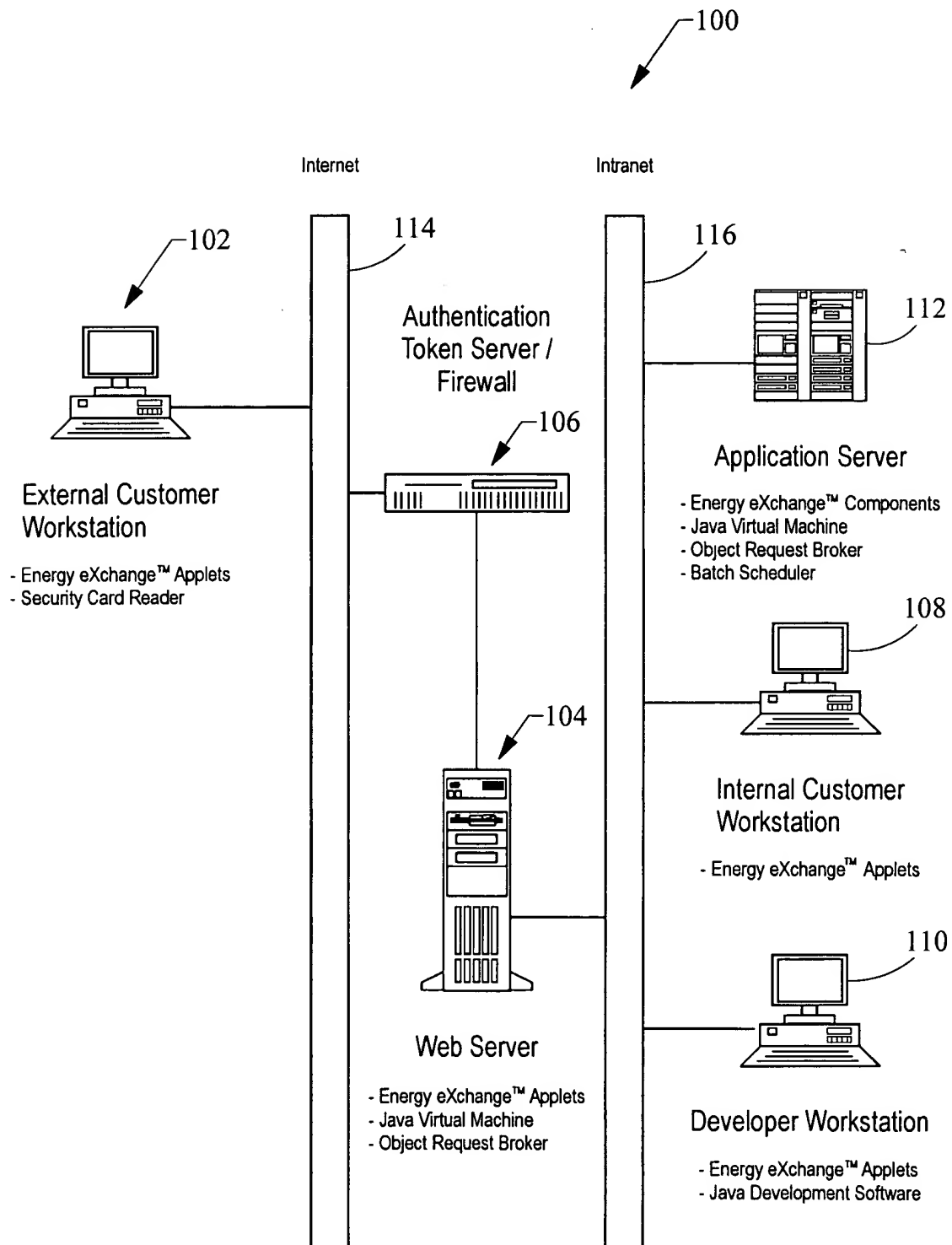


Fig. 77 : Technical Architecture

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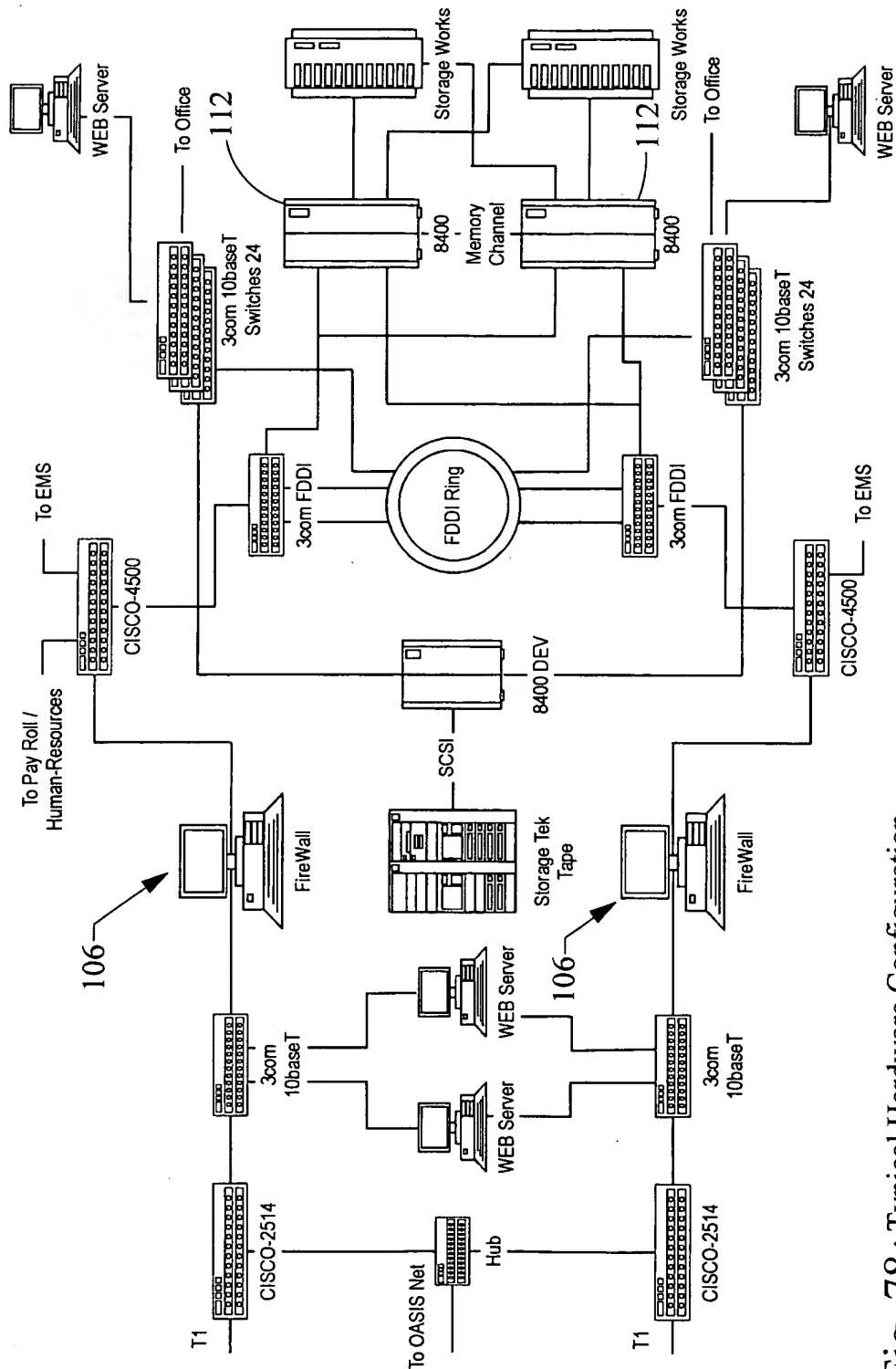


Fig. 78 : Typical Hardware Configuration

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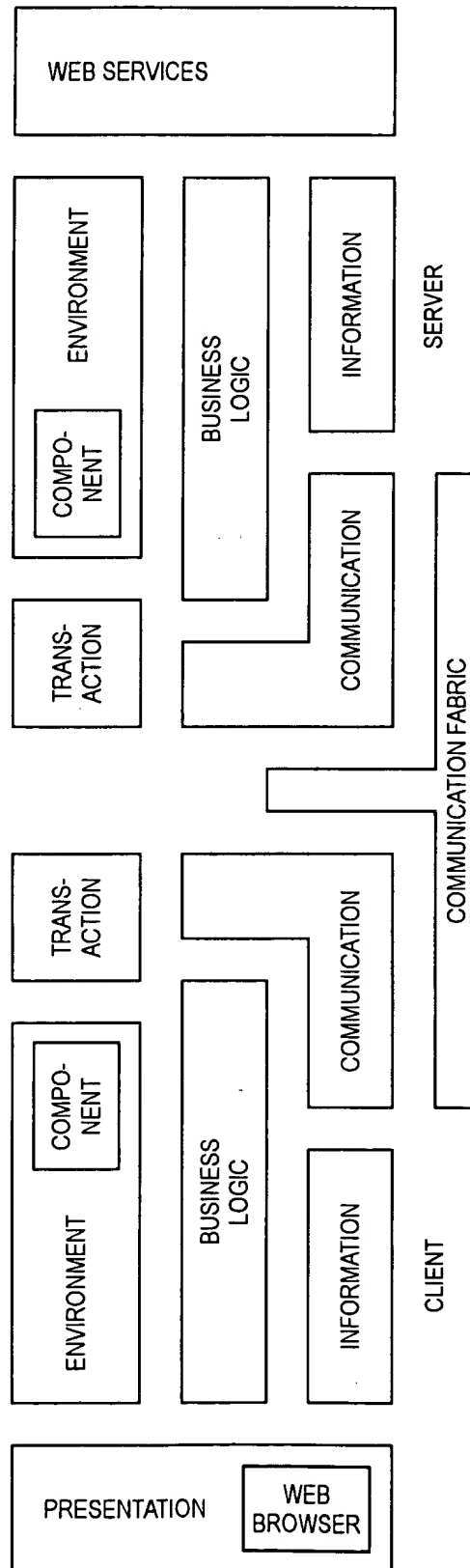


Fig. 79

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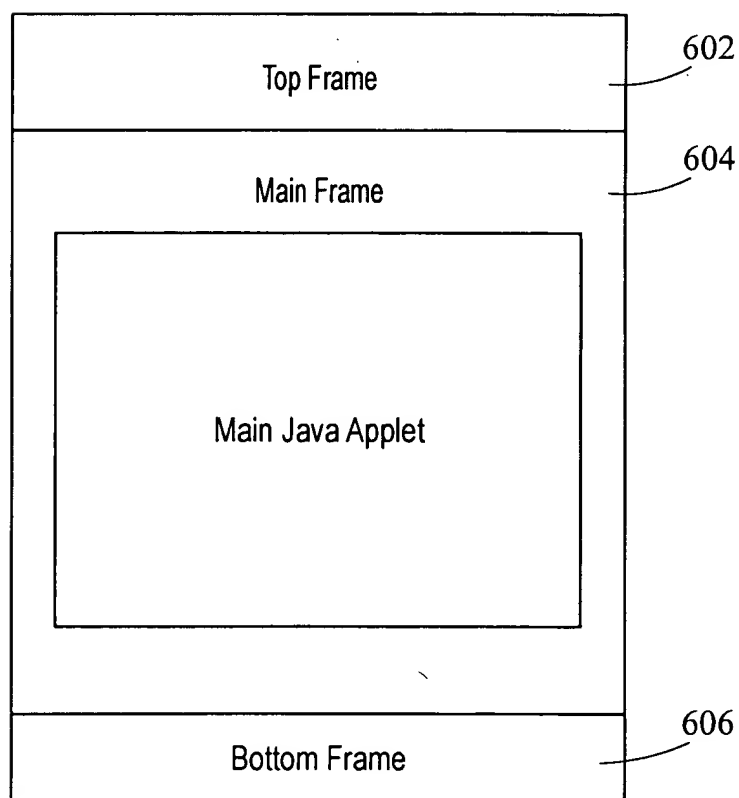


Fig. 80 : Basic UI Design

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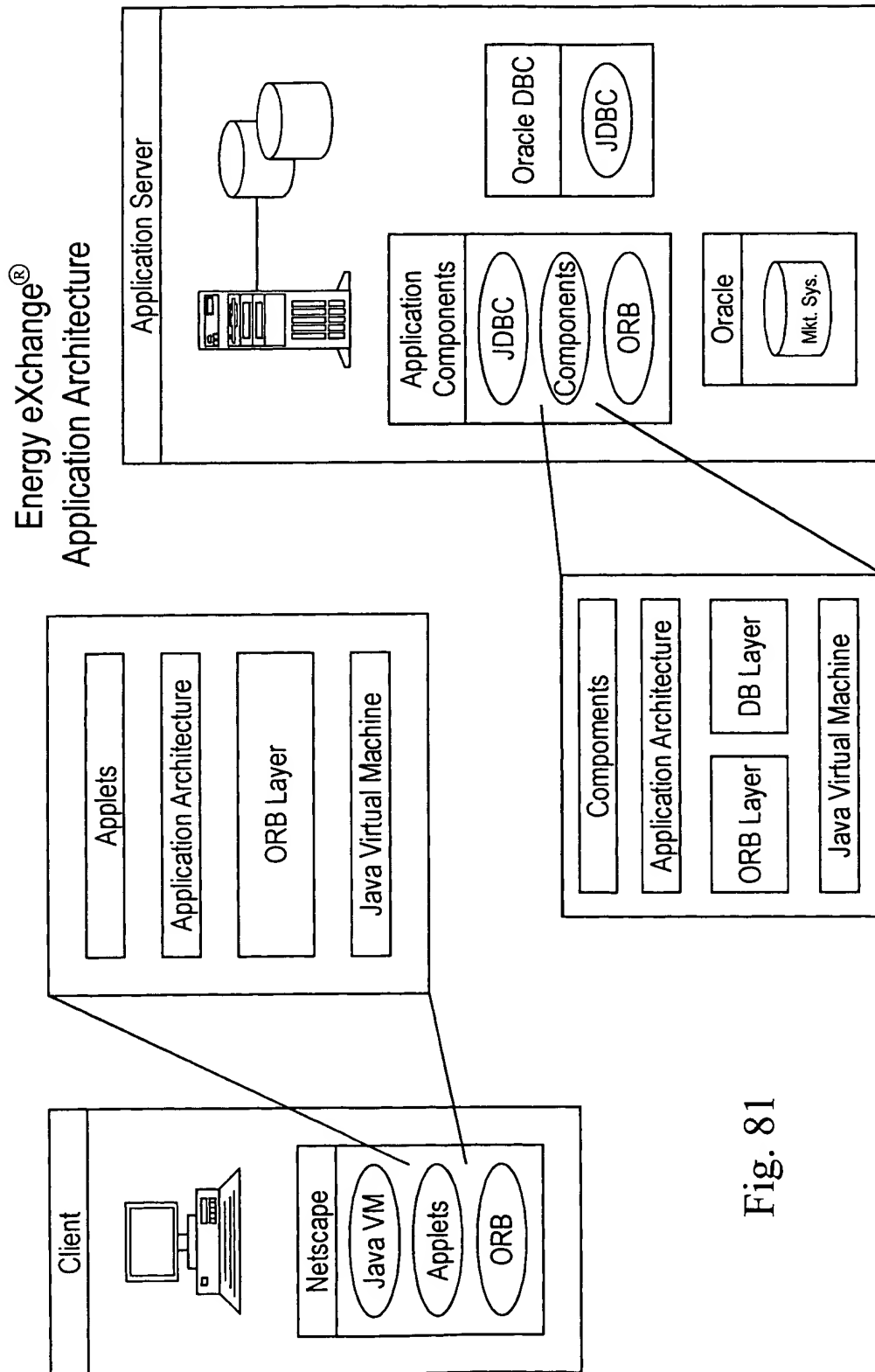


Fig. 81

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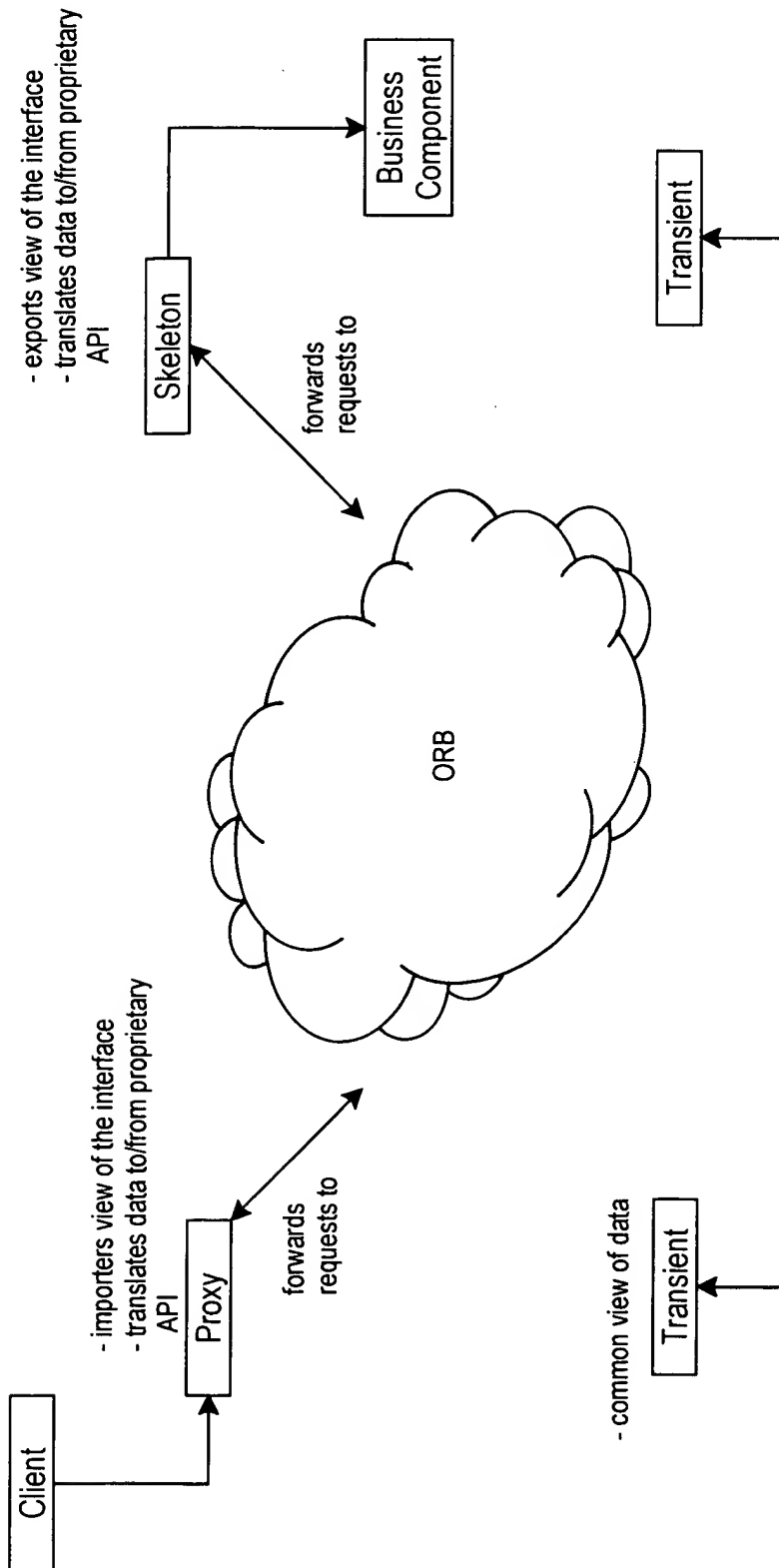


Fig. 82